

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A manufacturing method for manufacturing a multilayer film optical member, comprising:

an injection step in which an UV-curable liquid crystal is injected into a space between a pair of transparent substrates, with a transparent conductive film disposed on each of the transparent substrates;

a first radiation step in which ultraviolet light beams, each ultraviolet light beam being a parallel coherent light beam, are radiated onto the UV-curable liquid crystal through the pair of transparent substrates from two sides of the UV-curable liquid crystal; and

a second radiation step in which ultraviolet light achieving uniform intensity on a surface of the transparent substrate is radiated onto the UV-curable liquid crystal through the transparent substrate while applying an electrical field between the pair of transparent conductive films;

wherein in the first radiation step, an angle of incidence of light radiated onto the UV-curable liquid crystal is adjustable.

2. (Currently Amended) A manufacturing method for manufacturing a multilayer film optical member, comprising:

an injection step in which an UV-curable liquid crystal is injected into a space between a pair of transparent substrates;

a first radiation step in which ultraviolet light beams, each ultraviolet light beam being a parallel coherent light beam, are radiated onto the UV-curable liquid crystal through the pair of transparent substrates from two sides of the UV-curable liquid crystal; and

a second radiation step in which ultraviolet light achieving uniform intensity on a surface of the transparent substrate is radiated onto the UV-curable liquid crystal through the transparent substrate while holding in a magnetic field the UV-curable liquid crystal having been injected into the space between the pair of transparent substrates,

wherein in the first radiation step, an angle of incidence of light radiated onto the UV-curable liquid crystal is adjustable.

3. (Previously Presented) A manufacturing method for manufacturing a multilayer film optical member according to claim 2, wherein:

the second radiation step is executed by selecting a desired orientation for the magnetic field relative to surfaces of the pair of transparent substrates.

4. (Previously Presented) A manufacturing method for manufacturing a multilayer film optical member according to claim 1, wherein:

during the first radiation step, an angle of incidence of light radiated onto the UV-curable liquid crystal from one side is set equal to an angle of incidence of light radiated from another side.

5. (Previously Presented) A manufacturing method for manufacturing a multilayer film optical member according to claim 1, wherein:

the first radiation step is executed by designating one of radiation intensity and a length of radiation time of light radiated onto the UV-curable liquid crystal from one side and one of radiation intensity and a length of radiation time of light radiated from another side as variables.

6. (Previously Presented) A manufacturing method for manufacturing a multilayer film optical member according to claim 1, wherein:

the ultraviolet light achieving uniform intensity, that is radiated in the second radiation step, is non-coherent light.

7. (Previously Presented) A manufacturing method for manufacturing a multilayer film optical member according to claim 1, further comprising:

after ending the second radiation step, a separation step in which the multilayer film optical member is separated from the transparent substrates is executed.

8-11. (Canceled)

12. (Previously Presented) A manufacturing method for manufacturing a multilayer film optical member according to claim 4, wherein:

during the first radiation step, the angle of incidence of light radiated onto the UV-curable liquid crystal from the one side and the angle of incidence of light radiated from the other side are each adjustable.

13-15. (Canceled)

16. (Currently Amended) A manufacturing method for manufacturing a multilayer film optical member, comprising:

an injection step in which an UV-curable liquid crystal is injected into a space between a pair of transparent substrates, with a transparent conductive film disposed on each of the transparent substrates;

a first radiation step in which ultraviolet light beams, each ultraviolet light beam being a parallel coherent light beam, are radiated onto the UV-curable liquid crystal through the pair of transparent substrates from two sides of the UV-curable liquid crystal;

an application step in which an electrical field is applied between the pair of transparent conductive films; and

a second radiation step in which ultraviolet light achieving uniform intensity on a surface of the transparent substrate is radiated onto the UV-curable liquid crystal through the transparent substrate;

wherein in the first radiation step, an angle of incidence of light radiated onto the

UV-curable liquid crystal is adjustable.

17. (Previously Presented) A manufacturing method for manufacturing a multilayer film optical member according to claim 16, further comprising:

an orientation step in which orientation processing is executed on the pair of transparent substrates, wherein:

the first radiation step is executed while the UV-curable liquid crystal is oriented by the pair of transparent substrates on which the orientation processing is executed in the orientation step.

18. (Currently Amended) A manufacturing method for manufacturing a multilayer film optical member, comprising:

an injection step in which an UV-curable liquid crystal is injected into a space between a pair of transparent substrates;

a first radiation step in which ultraviolet light beams, each ultraviolet light beam being a parallel coherent light beam, are radiated onto the UV-curable liquid crystal through the pair of transparent substrates from two sides of the UV-curable liquid crystal;

a holding step in which the UV-curable liquid crystal having been injected into the space between the pair of transparent substrates is held in a magnetic field; and

a second radiation step in which ultraviolet light achieving uniform intensity on a surface of the transparent substrate is radiated onto the UV-curable liquid crystal through the transparent substrate;

wherein in the first radiation step, an angle of incidence of light radiated onto the UV-curable liquid crystal is adjustable.

19. (Previously Presented) A manufacturing method for manufacturing a multilayer film optical member according to claim 18, further comprising:

an orientation step in which orientation processing is executed on the pair of transparent substrates, wherein:

the first radiation step is executed while the UV-curable liquid crystal is oriented by the pair of transparent substrates on which the orientation processing is executed in the orientation step.